



PATENT ABSTRACTS OF JAPAN

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(54) OPTICAL BRANCHING/INSERTING DEVICE
USING WAVELENGTH SELECTING FILTER AND
OPTICAL BRANCHING DEVICE

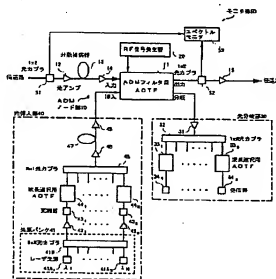
signal light to be inputted/outputted to/from the ADM
node part 10.

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(57) Abstract:

PROBLEM TO BE SOLVED: To provide an optical branching/inserting device capable of easily managing the wavelength of signal light and branching, inserting or transmitting the signal light having optical number of multiplexing and optically unimultiplexed transmitting signal light of optical wavelength by using a wavelength selecting filter utilizing an acoustic-optical effect.

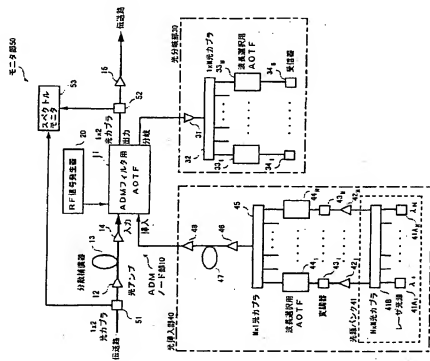
SOLUTION: The optical branching/inserting device is composed of an ADM node part 10 having a 4-port ATOF 11 to be a wavelength selecting filter and connected to a transmission line, an RF signal generator 20 for generating an RF signal of an optional frequency band and impressing the RF signal to the AOTF 11, a selected wavelength variable optical branch part 30 for receiving signal light outputted from the branch port of the AOTF 11 in each wavelength, an optical insertion part 40 for generating the optical number of inserting light components of optical wavelength and sending these light components to the insertion port of the AOTF 11, and a monitor part 50 for monitoring the spectrum of each



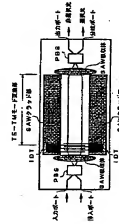
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- 41, 41', 41" 光源レンズ
41A, ~41An レーザ光源
50, 50' モニタ部
53 スペクトルモニタ
42A 光アンプ駆動回路

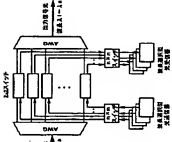
【図1】



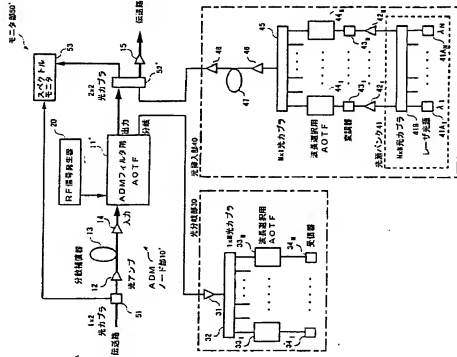
【図2】、



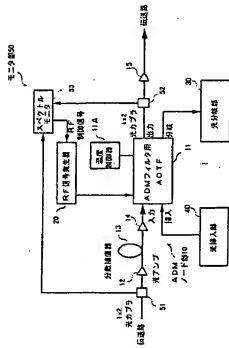
【図3】



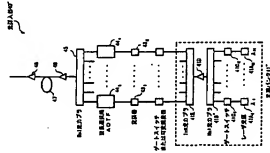
【図3】



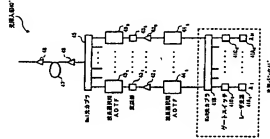
【図4】



【図7】



【図6】



【図5】

